

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

REMARKS

In the Office Action, the Examiner has acknowledged the claim for priority under 35 USC §119(e), but states that the provisional application upon which priority is claimed fails to provide adequate support for claims 1-28 and 45-51. The Examiner states that the limitation “sigmoidal” found in the claims, is not disclosed in the provisional application, but rather the term “s” curve is used. Similarly, the Examiner states that the limitation “conoid”, in claims 25-28 is not disclosed, but instead the term “cone” is used. The Examiner has also acknowledged the claim for foreign priority based upon the Chinese application, and a certified copy of this application has been requested, and will be submitted upon receipt.

The Examiner has also rejected claims 1-28 and 45-51 under 35 USC §112, first paragraph, as failing to comply with the written description requirements. The Examiner states that the claims contain subject matter that was not described in the specification in accordance with 35 USC §112. In this regard, the Examiner states that claims 1-24 and 45-51 include the limitation “sigmoidal”, while claims 25-28 include the limitation “conoid”, taking the position that these terms are not disclosed in the provisional application to which priority is claimed.

In response to the examiner’s position that the provisional application fails to provide adequate support under 35 USC §112 regarding the terms “sigmoidal” and “conoid”, as well as the rejection under 35 USC §112, first paragraph of the claims, the applicant responds as follows. In a review of the requirements under 35 USC §112, a claim of priority under 35 USC §119 requires that the provisional application comply with the written description requirement under 35 USC §112, first paragraph. In this regard, each claim limitation must be supported in the originally filed disclosure. In reference to MPEP 2163 II(A)(3)(b) it is noted that when an explicit limitation in a claim is not present in the written description of the priority application, the written description requirement of 35 USC §112 is still satisfied if a person of ordinary skill would have understood, at the time the application was filed, that the description supports the limitation. In this regard, the provisional application on which priority is claimed in the present application, clearly does provide proper support and complies with the written description requirement under 35 USC §112.

Both the terms “sigmoidal” and “conoid” are implicitly supported by the written description in the provisional application, which describes the connecting zone for which the term sigmoidal is used in the present description, as an s-curve. In addition to the use of the descriptive term s-curve, the provisional application further described, with particularity, the design of the connecting zone in a manner which clearly supports that a person of ordinary skill would clearly have understood at the time the application was filed, what the design of this connecting zone was, and that its shape was sigmoidal. In further support of this, the provisional application provides a precise mathematical as well as functional description of the connecting zone which clearly satisfies the written description requirement. Merely as an example, the connecting zone is described as being shaped to substantially match the slopes of the central zone and peripheral zone on adjacent sides, with the slopes of the s-curve at points of intersection 16 and 18 being substantially matched. The connecting zone is also described mathematically in equations 5-8 along with equation 1 clearly provide proper support for the presently claimed invention, as the shape defined by these equations is clearly sigmoidal. The applicant also refers to the drawings provided in the provisional application, which again clearly show a connecting zone which is shaped as a sigmoid, providing support for the present claims, and basis for the priority claim. I would also direct the Examiner’s attention to the common definition of sigmoidal, such as found on dictionary.com via the Internet. The term sigmoidal is defined as having the shape of the letters, as seen on the attached print out submitted herewith.

With respect to the term “conoid”, similar support is also provided in the provisional application, satisfying the written description requirements of 35 USC §112, and providing support for the priority claim. Similarly to the term sigmoidal, the term “conoid” was properly supported in the provisional application based the use of the term “cone” therein. The landing zone described in the provisional application, being in the shape of a conoid, is also clearly supported by other description in the provisional application, as well as the drawings. The angle of the cone is described as being selected to be elevated above the peripheral corneal surface relative to a point of tangency. This corresponds to the drawings of the connecting zone, which clearly show the shape of this peripheral zone being a conoid. References again made to the common meaning of the term conoid, such as found on dictionary.com, wherein it is noted that conoid means “shaped like a cone” as attached. A person of ordinary skill would have

immediately recognized the support for the terms as now presented in the present application, and based thereon it is believed that the written description requirement of 35 USC §112, first paragraph, is satisfied, and supports the priority claim as made. It is therefore believed that the claim for domestic priority under 35 USC §119(e) is supported, and the present application should be accorded the benefit of the provisional application filing date.

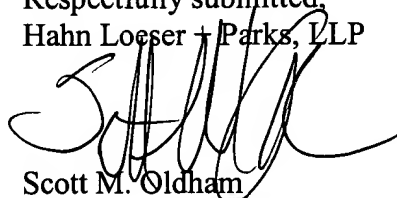
With respect to the rejection of the claims under 35 USC §112, first paragraph, the rejection should be withdrawn as there is clear support for these claim limitations in the application as originally filed. The question of whether the claims are accorded the benefit of the provisional application filing date does not affect the compliance with 35 USC §112 by the present claims. The terms “sigmoidal” and “conoid” were both in the original description of the present application when filed, and there is therefore clear support for these terms in the present claims. It is therefore believed that this rejection should be withdrawn and favorable action is requested.

The Examiner has also noted that new corrected drawings are required, and formal drawings of Figs. 1-42 are submitted herewith for approval in response thereto.

The Examiner has also rejected claim 3 under 35 USC §103, as being unpatentable over El Hage in view of Harris. Claim 3 has now been canceled, thereby rendering this rejection moot.

Based upon the foregoing, it is believed that the present application should be accorded the benefit of the provisional application filing date, as there was clear and adequate support for the claim limitations “sigmoidal” and “conoid” as presented herein. Further, the claims fully satisfy the requirements of 35 USC §112, as these claim terms are clearly supported in the original description of the present application. It is therefore believed that favorable action is in order, and is respectfully requested.

Respectfully submitted,
Hahn Loeser + Parks, LLP



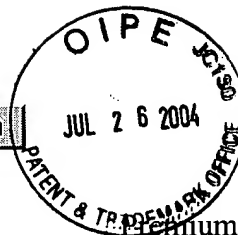
Scott M. Oldham
Registration No. 32,712

Twin Oaks Estate
1225 West Market Street
Akron, OH 44313-7188
(330) 864-5550
Attorney Docket No.: **116734.6**



sigmoidal

Search

☒ Dictionary
 ☐ Thesaurus
 ☐ Web
[Home](#)Premium: [Sign up](#) | [Login](#)

Find Your Graduating Class




classmates.com

199.

198.

197.

196.

195.

ADVERTISEMENT

[Dictionary](#) - [Thesaurus](#) - [Web](#)
[Get the Most Popular Sites for "sigmoidal"](#)

4 entries found for *sigmoidal*.

ADVERTISEMENT

sig·moid  **Pronunciation Key** (sĭg'moid) also

sig·moi·dal (sĭg-moid'l)

adj.

1. Having the shape of the letter S.
2. Of or relating to the sigmoid colon.

[Greek sĭgmoeidēs : sĭgma, *sigma*; see **sigma** + -oeidēs, -oid.]

[[Download or Buy Now](#)]

Source: *The American Heritage® Dictionary of the English Language, Fourth Edition*
 Copyright © 2000 by Houghton Mifflin Company.
 Published by Houghton Mifflin Company. All rights reserved.

sigmoidal

Sigmoid \Sig'moid\, Sigmoidal \Sig*moid'al\, a.
 [Gr. ???; ??? sigma + ??? form, likeness: cf. F. sigmo["i]de.]
 Curved in two directions, like the letter S, or the Greek [sigmat].

Sigmoid flexure (Anat.), the last curve of the colon before it

terminates in the rectum. See Illust. under Digestive.

Sigmoid valves. (Anat.) See Semilunar valves, under Semilunar.

[Try Merriam-Webster Unabridged.]

Source: *Webster's Revised Unabridged Dictionary*, © 1996, 1998 MICRA, Inc.

sigmoidal

adj : of or relating to the sigmoid flexure in the large intestine
[syn: sigmoid]

Source: *WordNet* ® 1.6, © 1997 Princeton University

sigmoidal

sigmoidal: in CancerWEB's On-line Medical Dictionary

Source: *On-line Medical Dictionary*, © 1997-98 Academic Medical Publishing & CancerWEB

Ads by Google

Colon Cancer

Treatments

Learn all about new findings on various colon cancer

treatments

www.healthtalk.com/coloncancer

Sigmoid colon

symptoms?

Investigational colon cancer drug
Enrolling now for

clinical trial

http://etrialx.novartis.com /

Video on Cancer

Holistic

Free 2-hour video on cancer treatment with

survivor story.

www.tianxian.com

Colon

Perforation Law

Law firm helping victims of medical malpractice


www.medical-negligence-law.com

Want only
the top
prospects?

Perform a new search, or try your search for "sigmoidal" at:

- Amazon.com - Shop for books, music and more
- Reference.com - Search the Web
- eLibrary - Search thousands of newspapers and magazines
- Google - Search the Web for relevant results
- Google Groups - Search Usenet messages back to 1981
- Merriam-Webster - Search for definitions

- [Roget's Thesaurus](#) - Search for synonyms and antonyms

 **WESTWOOD
COLLEGE ONLINE**

Earn your college
degree in as little as
17 months!

MASTER'S	BACHELOR'S
<ul style="list-style-type: none">▪ Business Administration	<ul style="list-style-type: none">▪ Business Administration-Accounting
ASSOCIATE'S	<ul style="list-style-type: none">▪ Business Administration-Marketing & Sales
<ul style="list-style-type: none">▪ Computer Network Engineering	<ul style="list-style-type: none">▪ Criminal Justice
<ul style="list-style-type: none">▪ Graphic Design and Multimedia	<ul style="list-style-type: none">▪ Computer Network Management
<ul style="list-style-type: none">▪ Software Engineering	<ul style="list-style-type: none">▪ E-Business Management

Click Here

ADVERTISEMENT

Get the **FREE Dictionary.com Toolbar** for your browser now!

From the makers of Dictionary.com

Copyright © 2004, [Lexico Publishing Group, LLC](#). All rights reserved.

[About Dictionary.com](#) | [Privacy Policy](#) | [Terms of Use](#) | [Link to Us](#) | [Help](#) | [Contact Us](#)



☒ Dictionary ☐ Thesaurus ☐ Web

[Home](#)

 Premium: [Sign up](#) | [Login](#)

 studio suites
\$35.99
 a night!

Homestead
 HomesteadHotels.com

ADVERTISEMENT

 Dictionary - [Thesaurus](#) - [Web](#)

Get the Most Popular Sites for "conoid"

7 entries found for *conoid*.

 co·noid **Pronunciation Key** (kɒˈnɔɪd) also

co·noi·dal (kɒˈnɔɪdəl)

adj.

Shaped like a cone.

 coˈnoid *n.*
[\[Download or Buy Now\]](#)

 Source: *The American Heritage® Dictionary of the English Language, Fourth Edition*

Copyright © 2000 by Houghton Mifflin Company.

Published by Houghton Mifflin Company. All rights reserved.

 Main Entry: ¹co·noid

Pronunciation: ˈkɒ-ˈnɔɪd

Variant: or co·noi·dal /kɒ-ˈnɔɪd-əl/

 Function: *adjective*

: shaped like or nearly like a cone

 Source: *Merriam-Webster Medical Dictionary*, © 2002

Merriam-Webster, Inc.

 Main Entry: ²conoid

 Function: *noun*

Ads by Google

ADVERTISEMENT

**Advanced
Finned Products**

 Extended surface
tubes in Inconel,
Carbon, Ceramic,
Nickel Alloys etc.
www.elfin.co.uk
Plume Geometry

 Plume geometry
measurement and
Spray cone angle
imaging.
oxfordlasers.com
**Pyramid
Mouldings**

 Roll formed shapes
to meet your
specific needs - 70
roll-form lines
www.pyramidmouldings.com
**Bi-Conic
Antennas**

 High quality Bi-
Conic Antennas
built to order
specifications
www.rozendalassociates.com

: a cone-shaped structure; *especially* : a hollow organelle shaped like a truncated cone that occurs at the anterior end of the organism in some developmental stages of some sporozoans (as of the genus *Sarcocystis*)

Source: Merriam-Webster Medical Dictionary, © 2002 Merriam-Webster, Inc.

conoid

\Co"noid\, n. [Gr. ? conical; ? cone + ? from: cf. F. cono["i] de.] 1. Anything that has a form resembling that of a cone.

2. (Geom.) (a) A solid formed by the revolution of a conic section about its axis; as, a parabolic conoid, elliptic conoid, etc.; -- more commonly called paraboloid, ellipsoid, etc. (b) A surface which may be generated by a straight line moving in such a manner as always to meet a given straight line and a given curve, and continue parallel to a given plane. --Math. Dict.

[Try Merriam-Webster Unabridged.]

Source: Webster's Revised Unabridged Dictionary, © 1996, 1998 MICRA, Inc.

conoid

\Co"noid\ a. Resembling a cone; conoidal.

[Try Merriam-Webster Unabridged.]

Source: Webster's Revised Unabridged Dictionary, © 1996, 1998 MICRA, Inc.

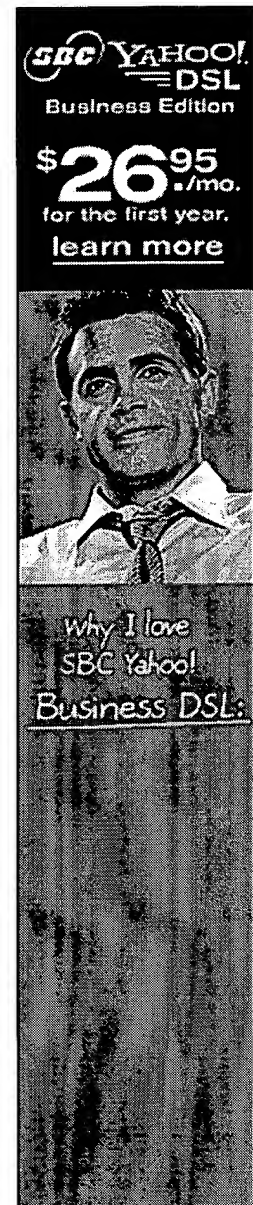
conoid

n : a shape whose base is a cone and whose sides taper up to a point [syn: cone, cone shape]

Source: WordNet ® 1.6, © 1997 Princeton University

conoid

conoid: in CancerWEB's On-line Medical Dictionary



SBC YAHOO! DSL
Business Edition

\$26⁹⁵ +/mo.
for the first year.
[learn more](#)



why I love
SBC Yahoo!
Business DSL:

Source: *On-line Medical Dictionary*, © 1997-98 Academic
Medical Publishing & CancerWEB

**Perform a new search, or try your search for
"conoid" at:**

- [Amazon.com](#) - Shop for books, music and more
- [Reference.com](#) - Search the Web
- [eLibrary](#) - Search thousands of newspapers and magazines
- [Google](#) - Search the Web for relevant results
- [Google Groups](#) - Search Usenet messages back to 1981
- [Merriam-Webster](#) - Search for definitions
- [Roget's Thesaurus](#) - Search for synonyms and antonyms

Find Your Graduating Class



1994

1984

1974

1964

1954

ADVERTISEMENT

Get the **FREE Dictionary.com Toolbar** for your browser now!

From the makers of Dictionary.com

Copyright © 2004, Lexico Publishing Group, LLC. All rights reserved.

[About Dictionary.com](#) | [Privacy Policy](#) | [Terms of Use](#) | [Link to Us](#) | **Help** | [Contact Us](#)